OIPE JC1300
NOV 2 4 2003
PATENT & TRADEMARK OFFICE

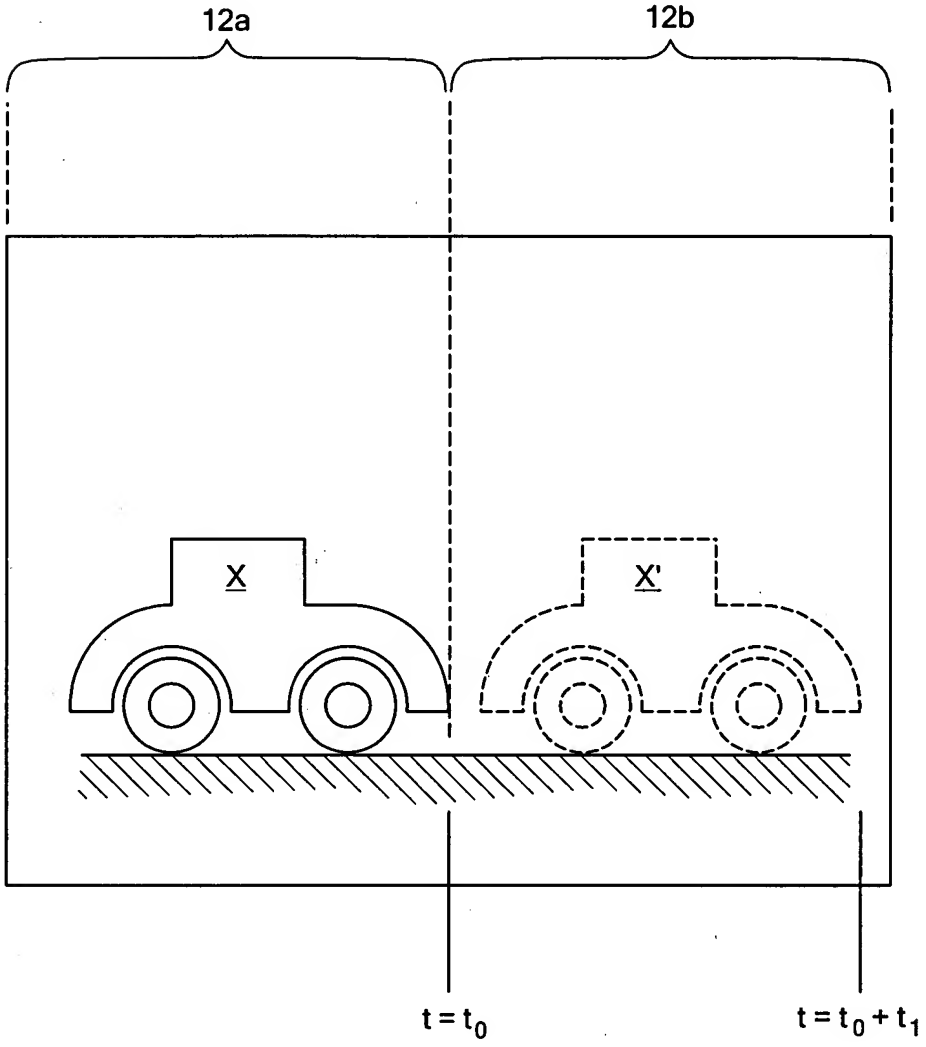


FIG. 1a

OIPE JC1&D
NOV 24 2003
PATENT & TRADEMARK OFFICE

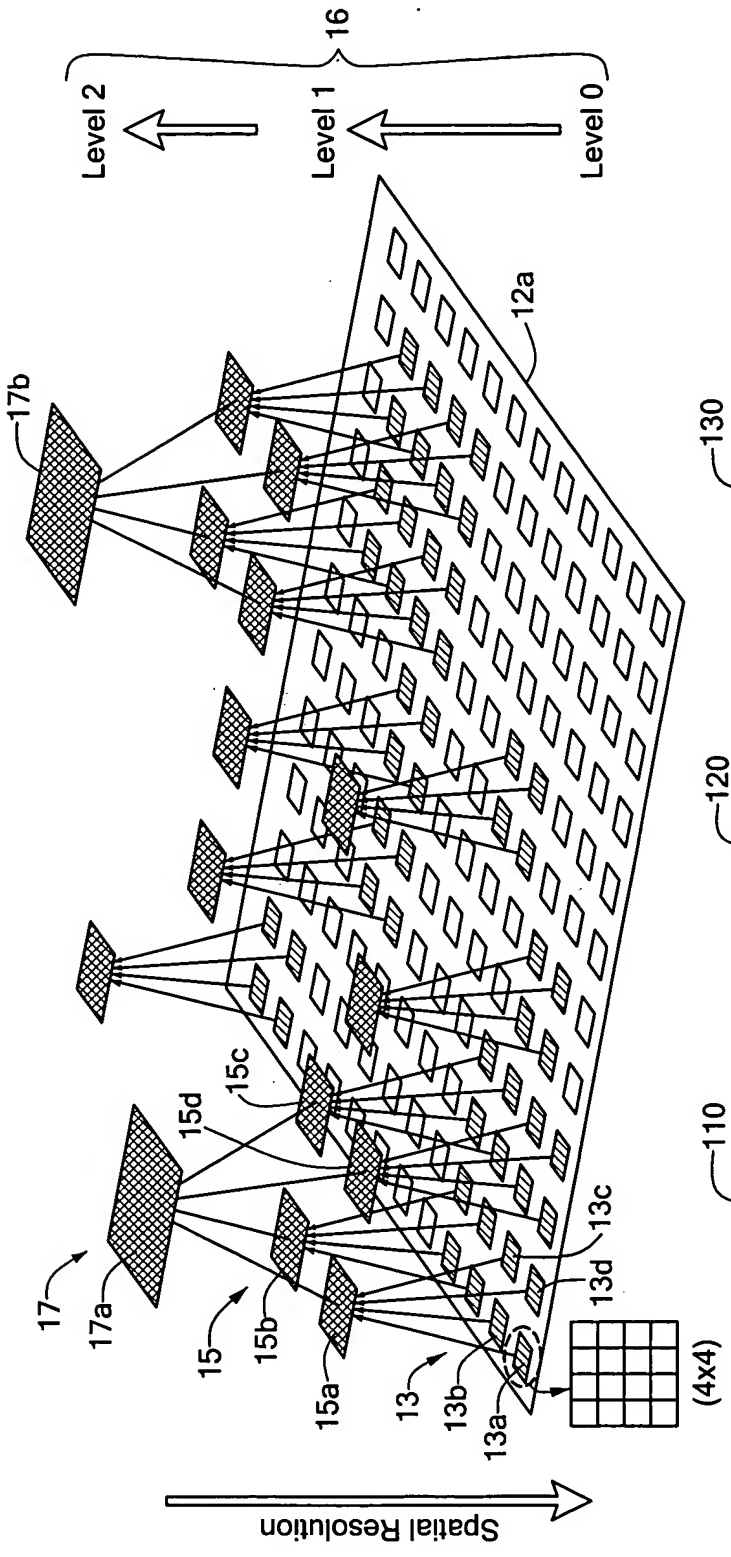


FIG. 1b

OIPE JC130
NOV 2 4 2003
PATENT & TRADEMARK OFFICE

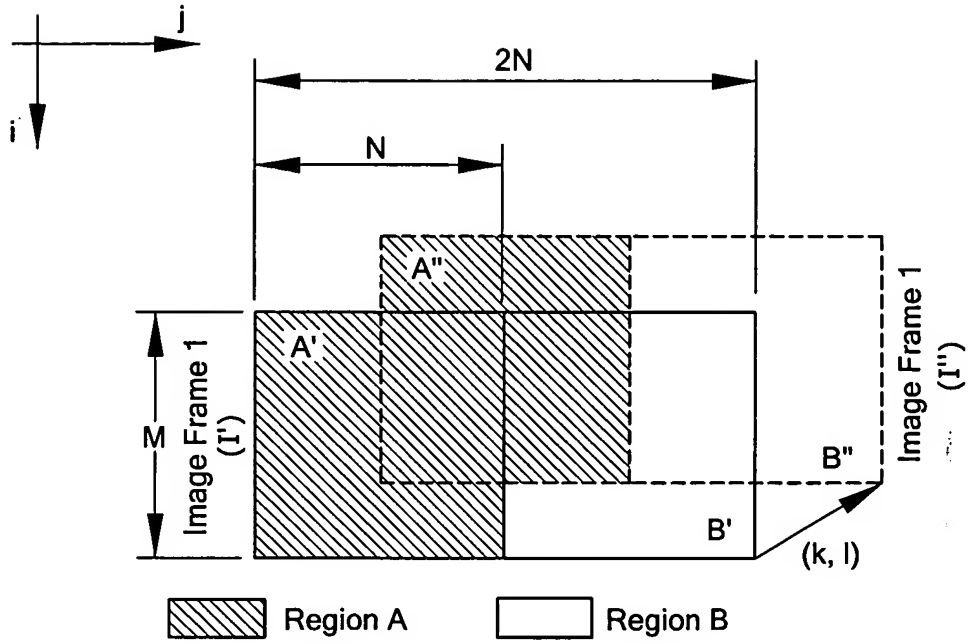


FIG. 2

OIPE JC180
NOV 24 2003
PATENT & TRADEMARK OFFICE

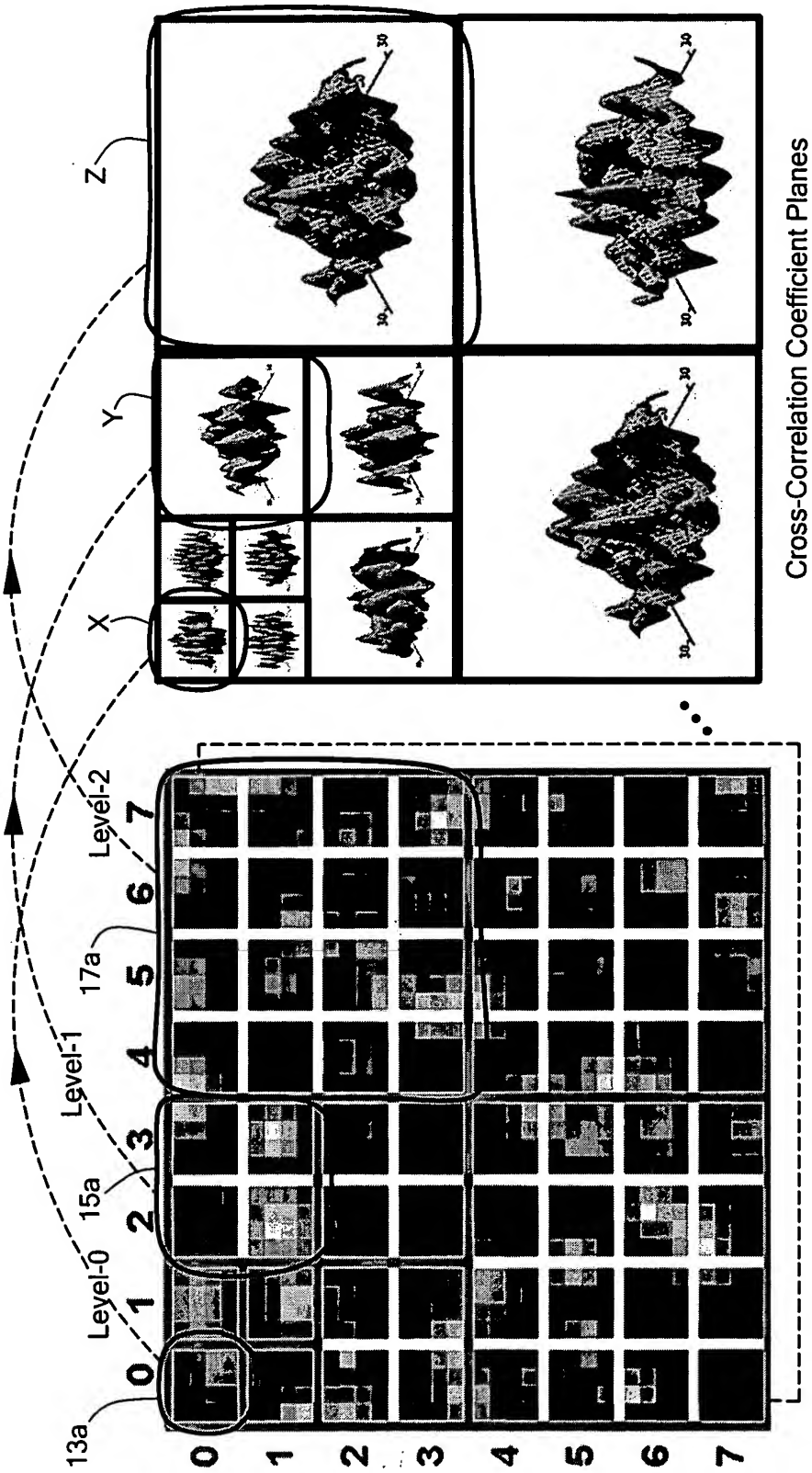


FIG. 3b

FIG. 3a

OIPE JC130 NOV 24 2003 PATENT & TRADEMARK OFFICE

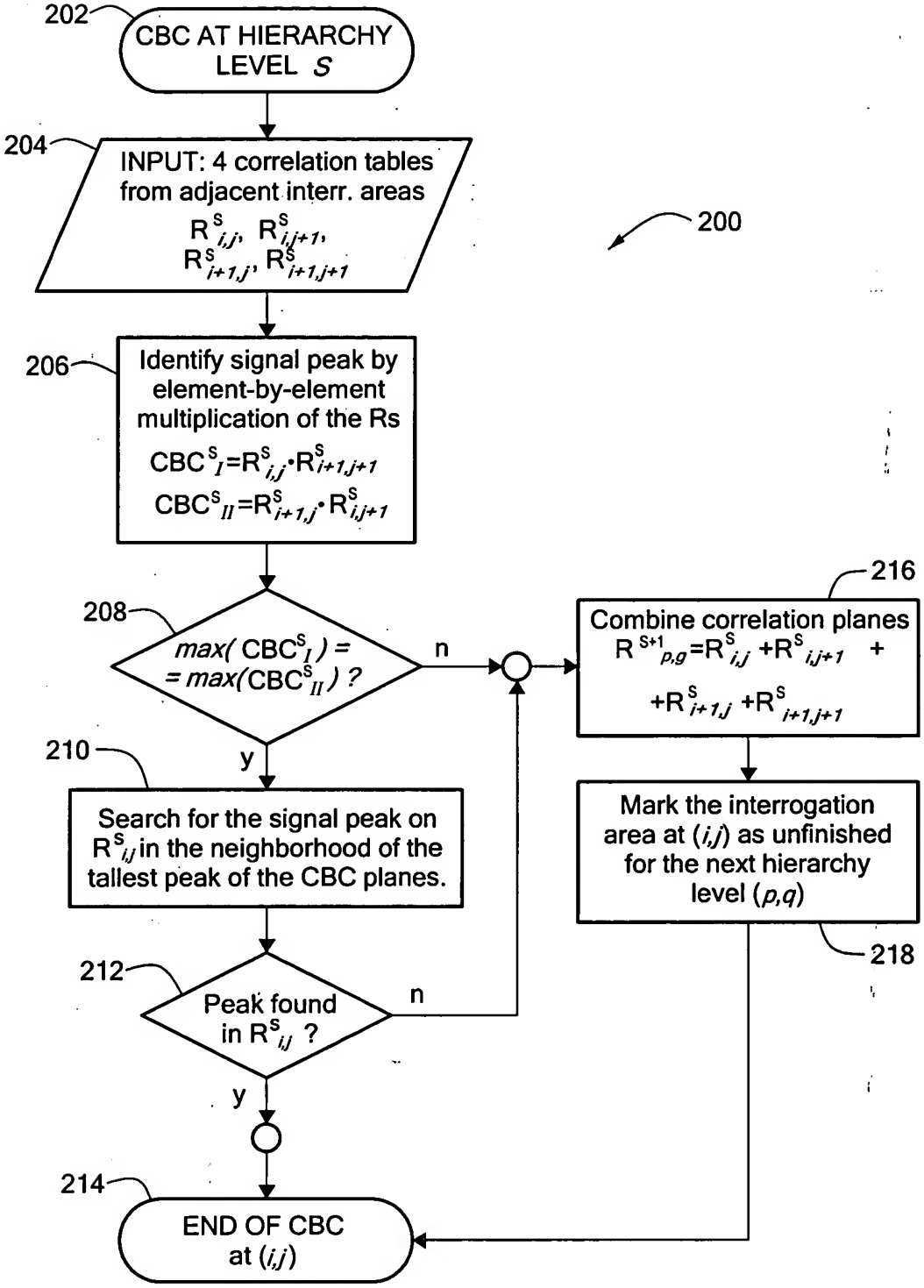


FIG 4a

OIPE
NOV 24 2003
PATENT & TRADEMARK OFFICE

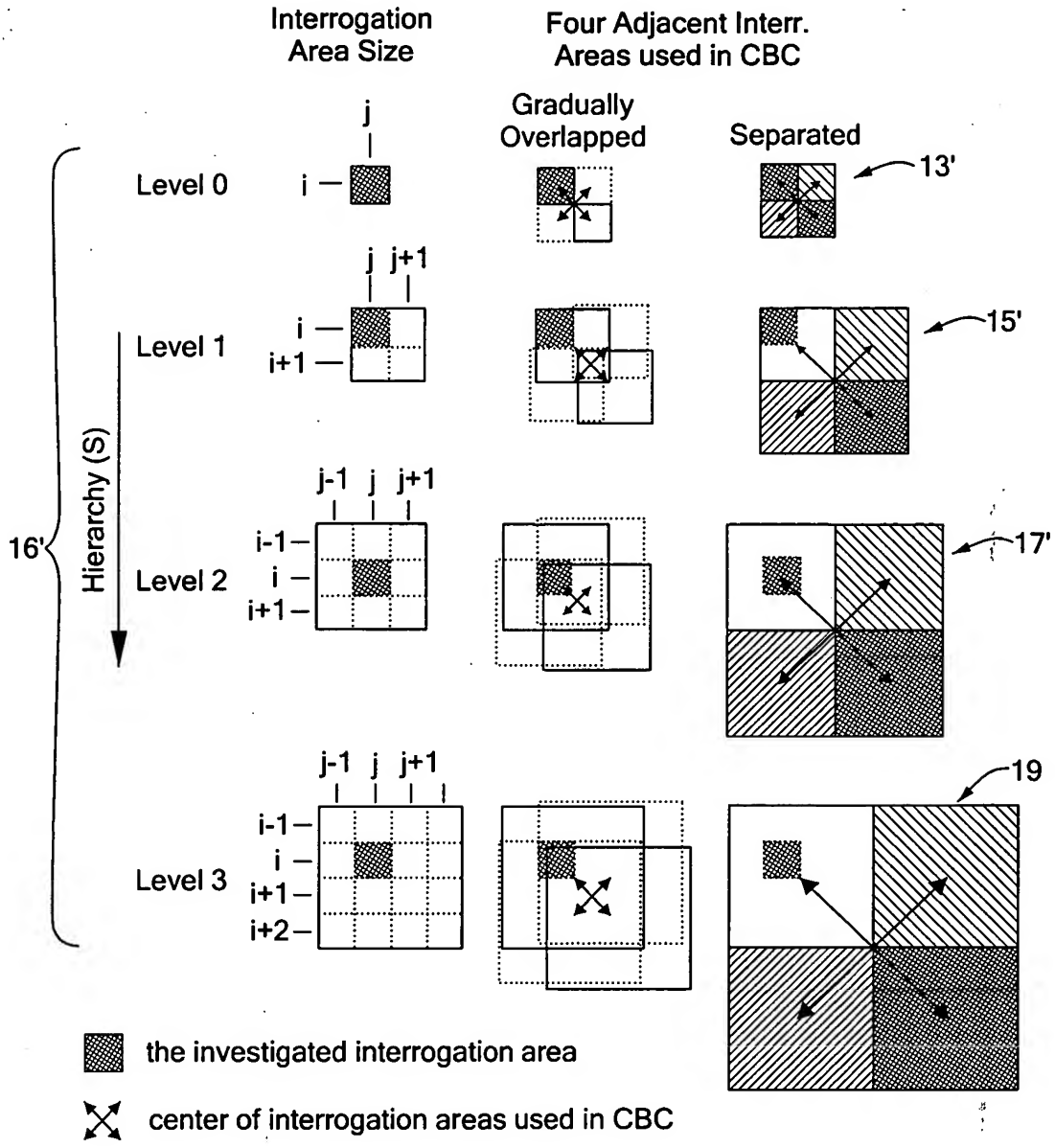


FIG. 4b

OIPE JC1/30
NOV 24 2003
PATENT & TRADEMARK OFFICE

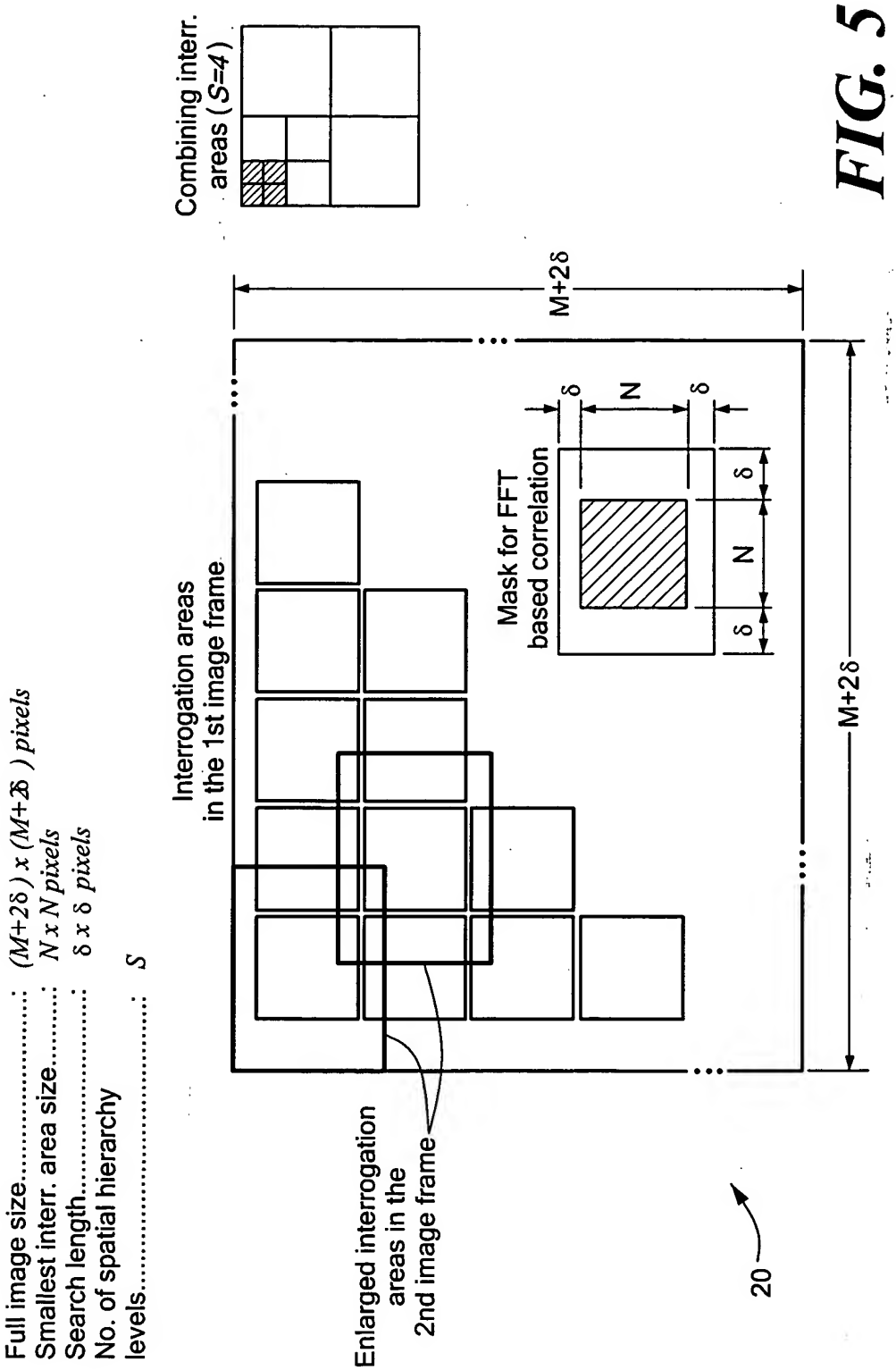


FIG. 5

OIPE JC1 30
NOV 24 2003
PATENT & TRADEMARK OFFICE

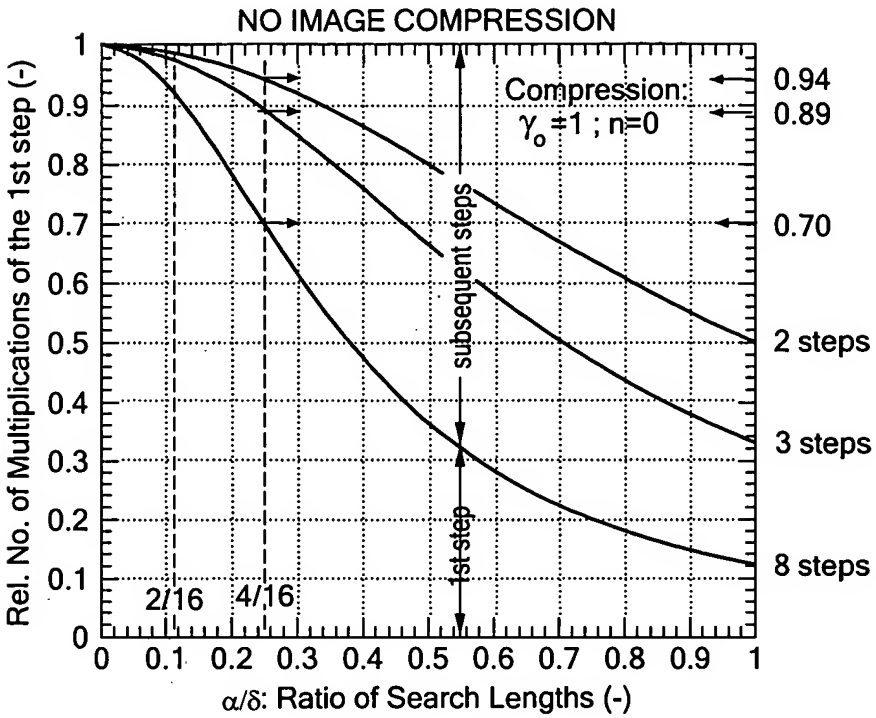


FIG. 6a

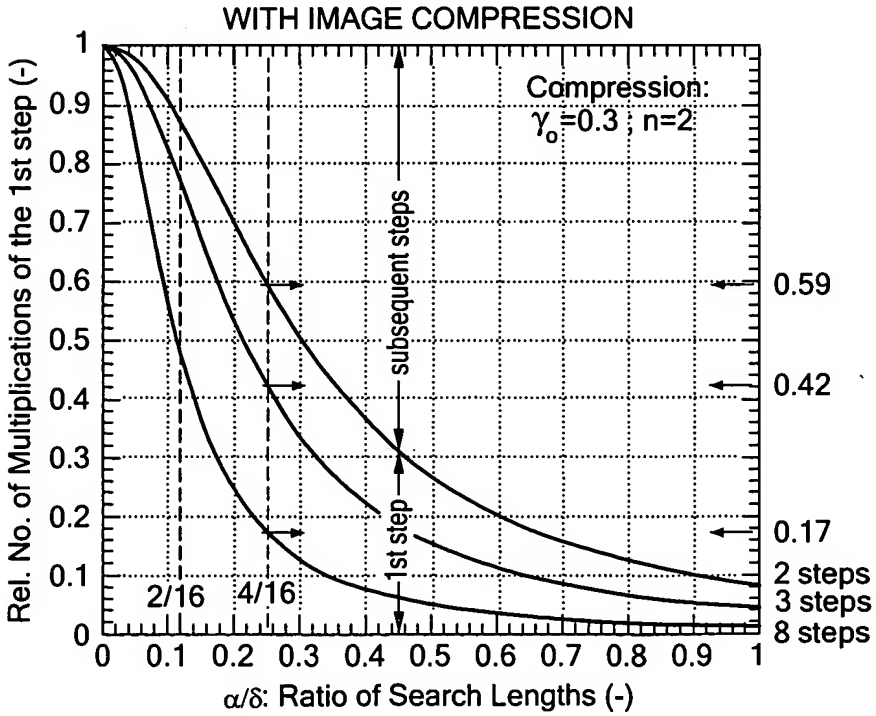


FIG 6b

OIPE JC150
NOV 24 2003
PATENT & TRADEMARK OFFICE

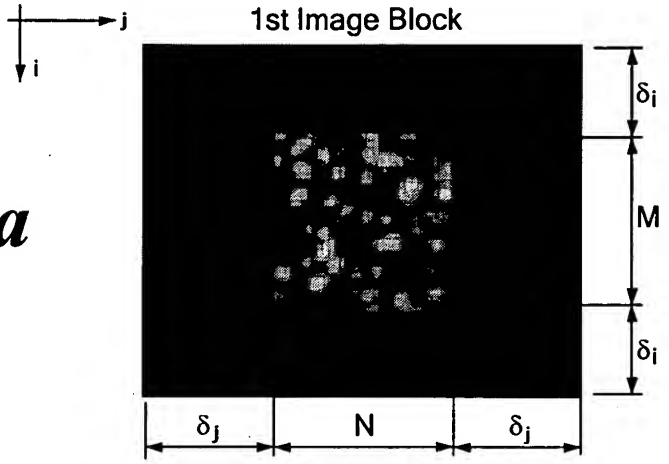


FIG. 7a

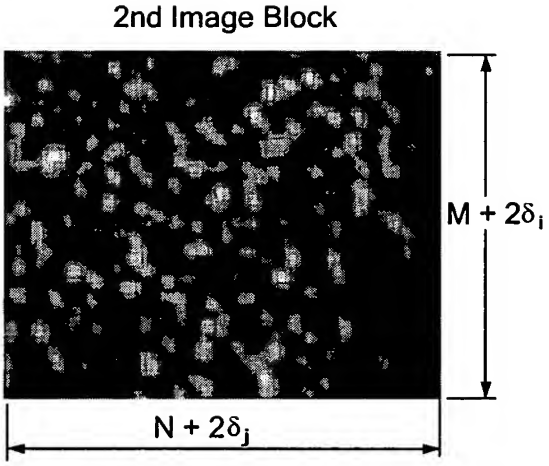


FIG. 7b

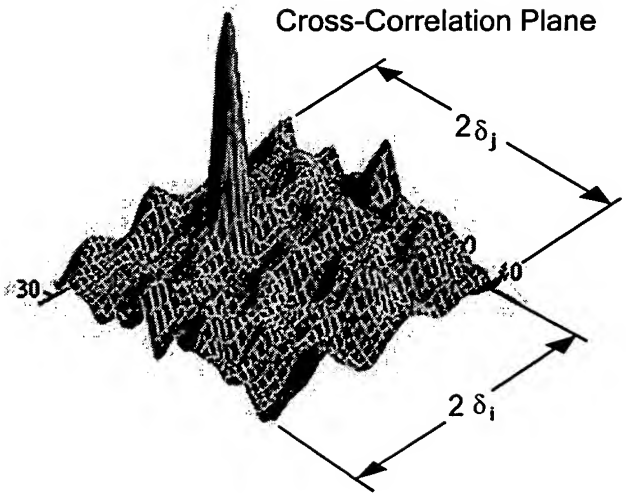


FIG. 7c

OIPE JC130
NOV 24 2003
PATENT & TRADEMARK OFFICE

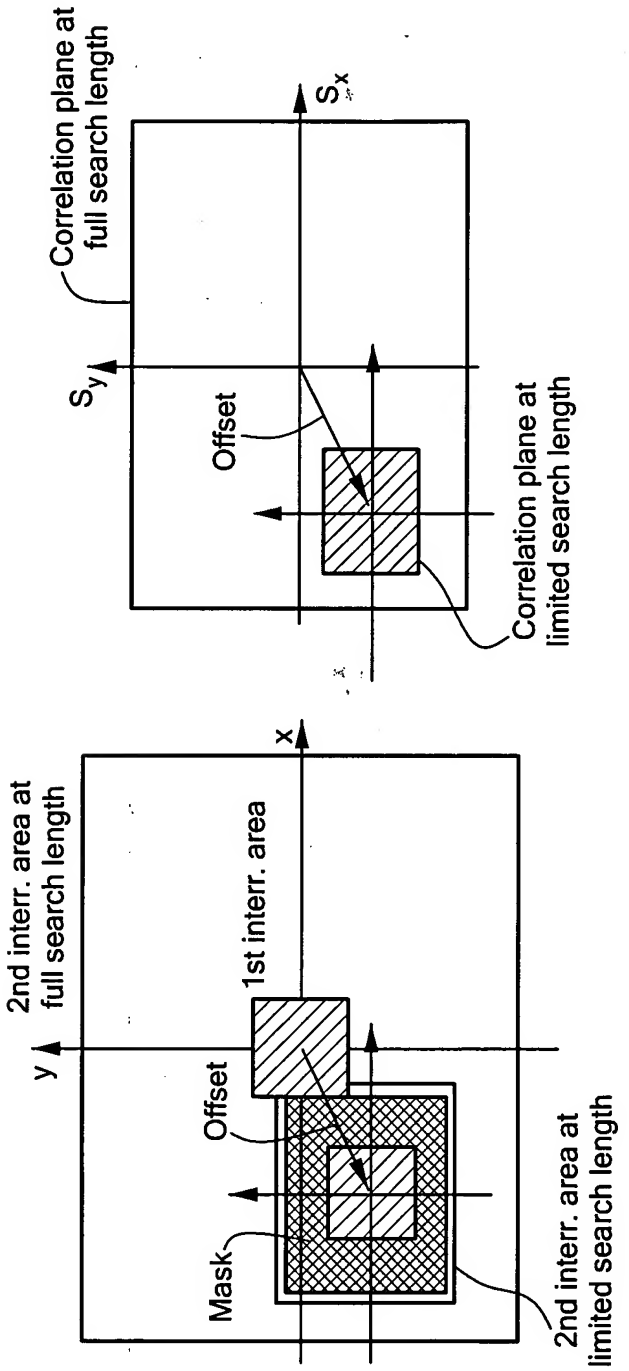


FIG. 8

OIPE JC130
NOV 2 4 2003
PATENT & TRADEMARK OFFICE

FIG. 9a

Original Image Frame

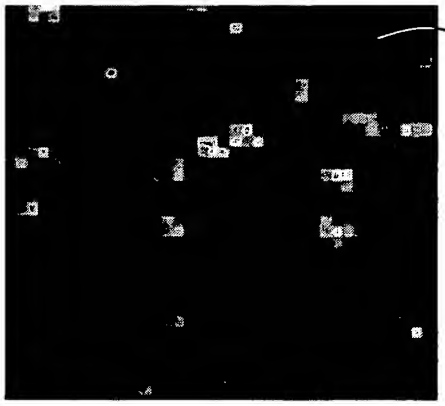


FIG. 9b

Interrogation Areas on Uniform Mesh

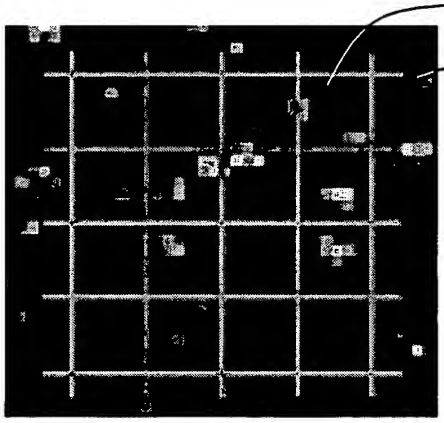
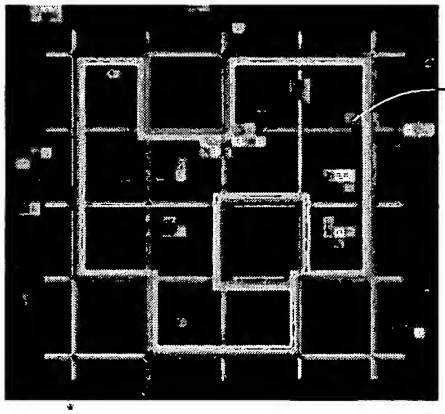


FIG. 9c

Combining Interrogation Areas
based on Signal Content



OIPE JC130
NOV 24 2003
PATENT & TRADEMARK OFFICE

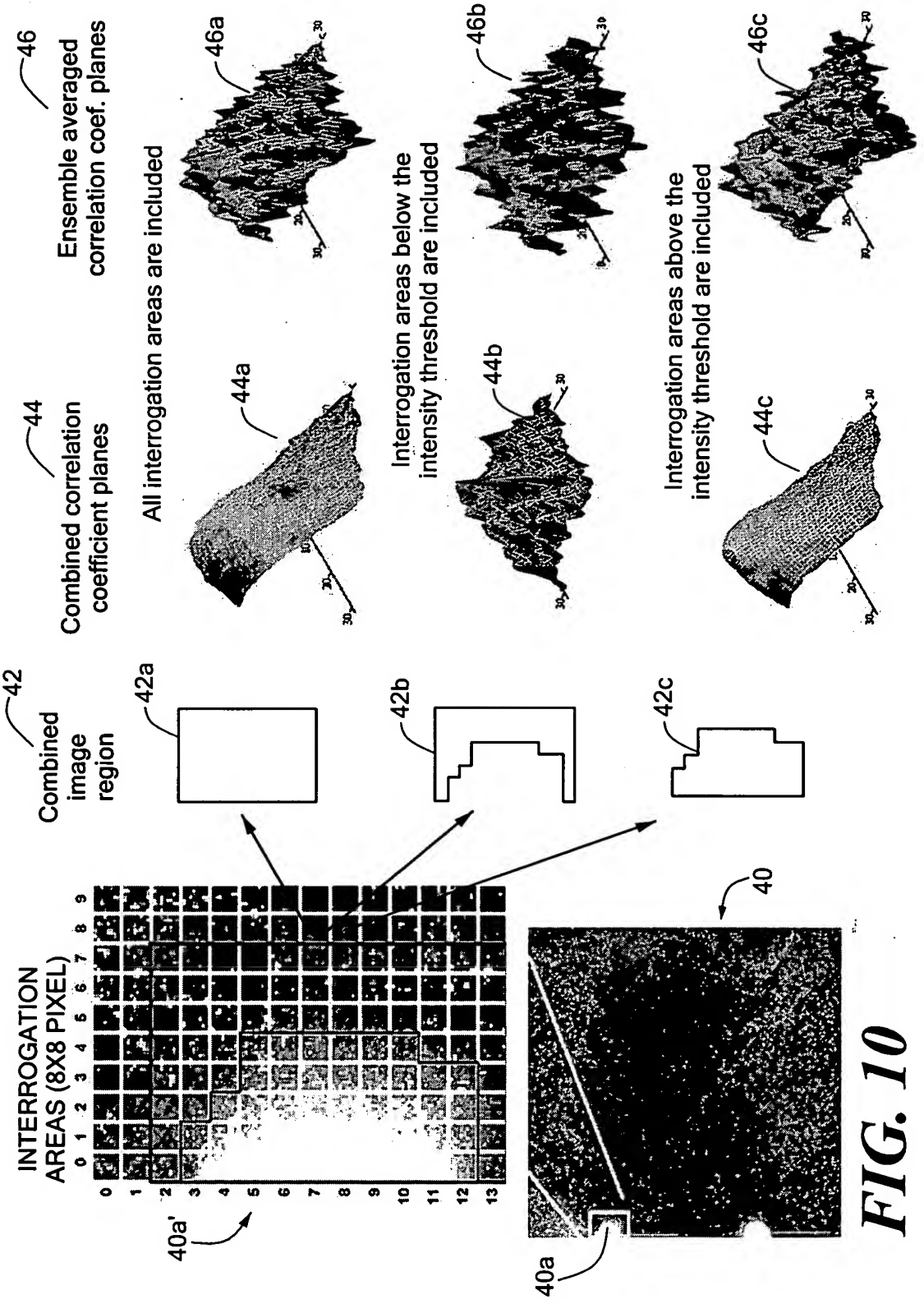


FIG. 10

OIPE JC180
NOV 24 2003
PATENT & TRADEMARK OFFICE

VJS PIV STANDARD IMAGE #23: 3D JET IMPINGEMENT/DENSE PARTICLE
First Image Frame

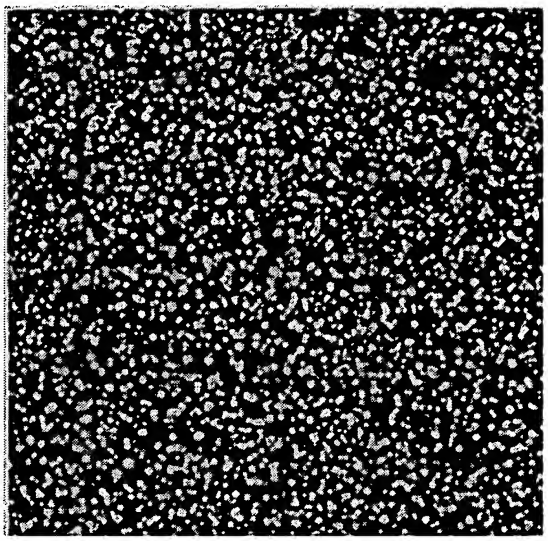


FIG. 11a

VJS PIV STANDARD IMAGE #23: 3D JET IMPINGEMENT/DENSE PARTICLE
Overlaid 1st and 2nd Image Frames

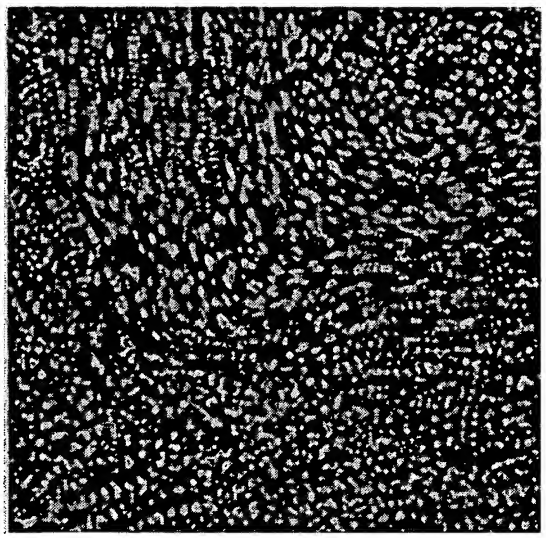


FIG 11b

OIPE JC130
NOV 24 2003
PATENT & TRADEMARK OFFICE

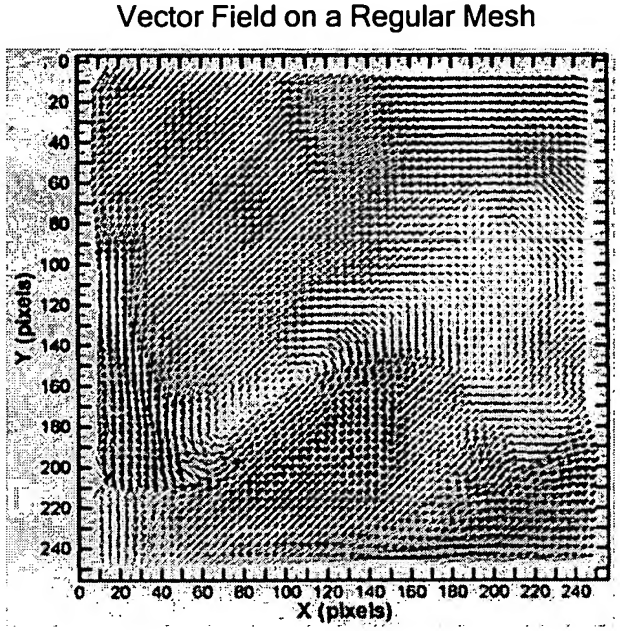


FIG. 11c

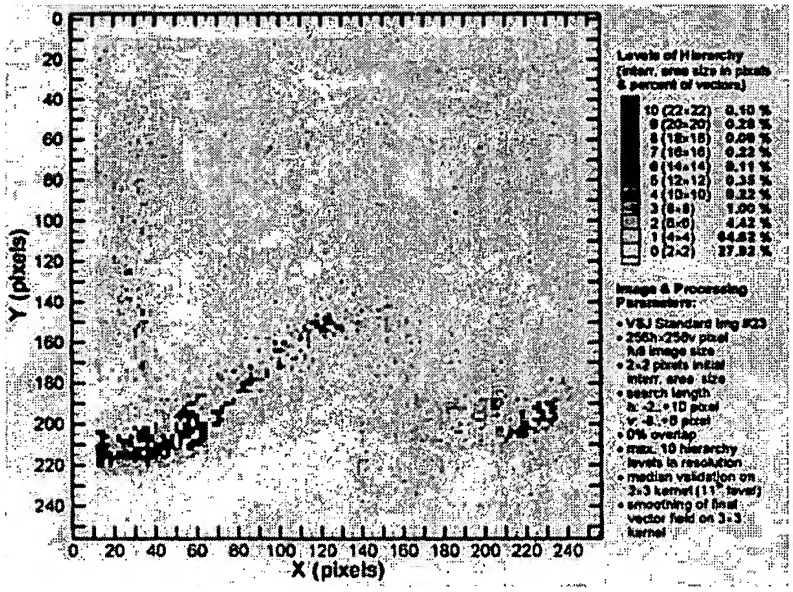


FIG. 11d

OIPE JC1300
NOV 24 2003
PATENT & TRADEMARK OFFICE

HIGH REYNOLDS NUMBER SWIRLING
FLOW UNDERGOING SUDDEN EXPANSION
First Image Frame

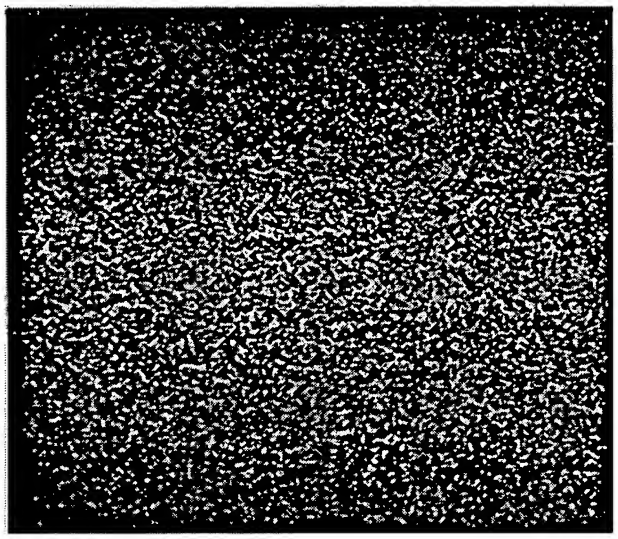


FIG. 12a

HIGH REYNOLDS NUMBER SWIRLING
FLOW UNDERGOING SUDDEN EXPANSION
Overlaid 1st and 2nd Image Frames

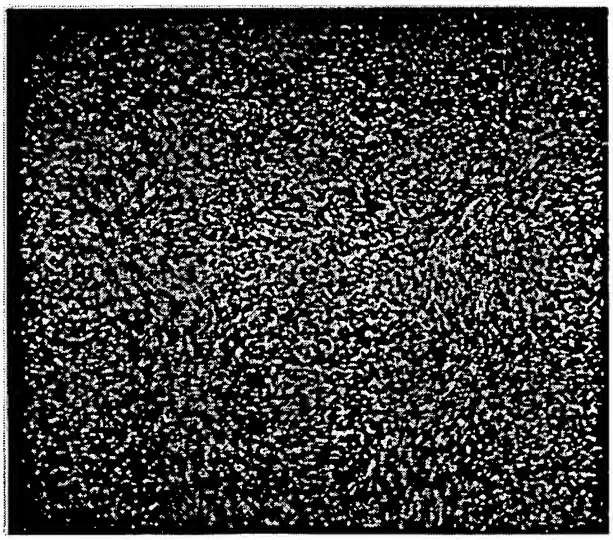


FIG 12b

OIPE JC190
NOV 24 2003
PATENT & TRADEMARK OFFICE

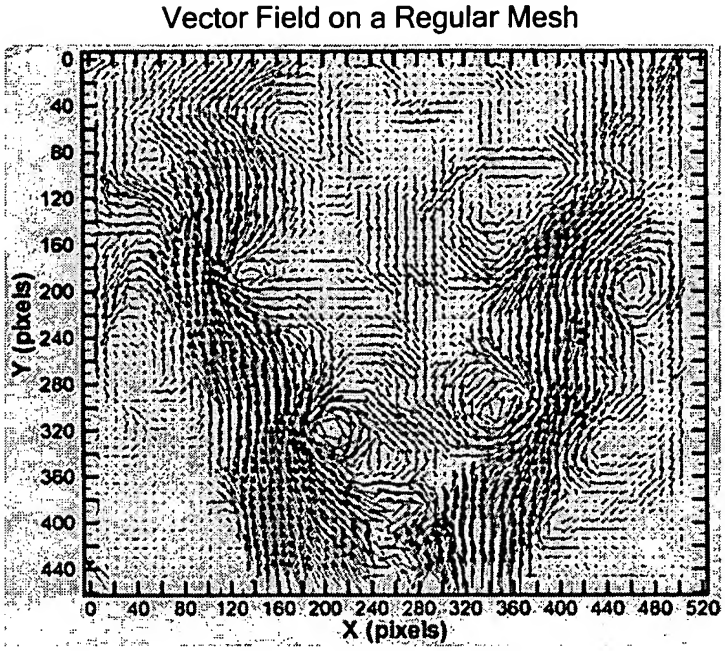


FIG. 12c

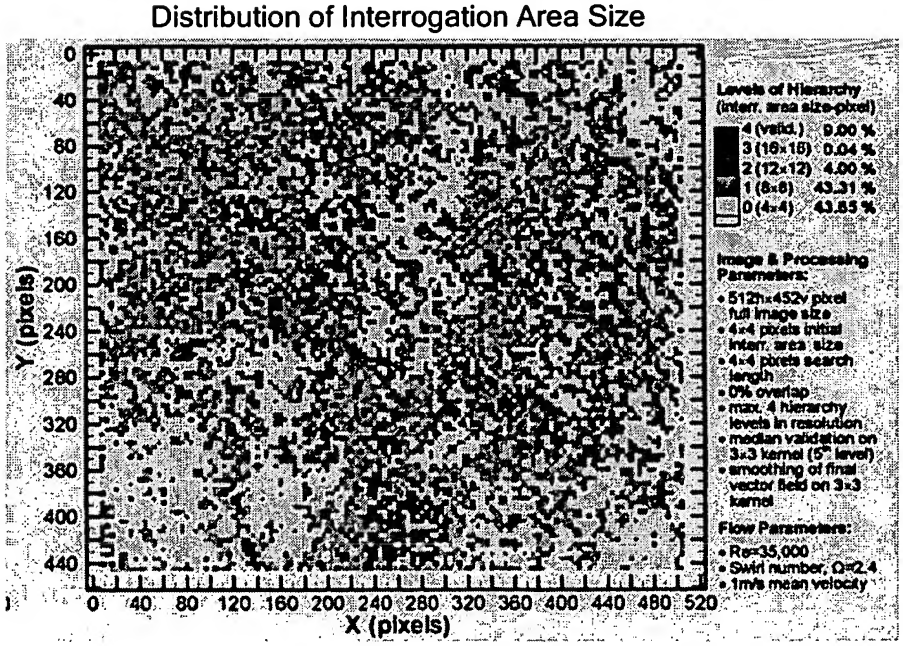


FIG 12d